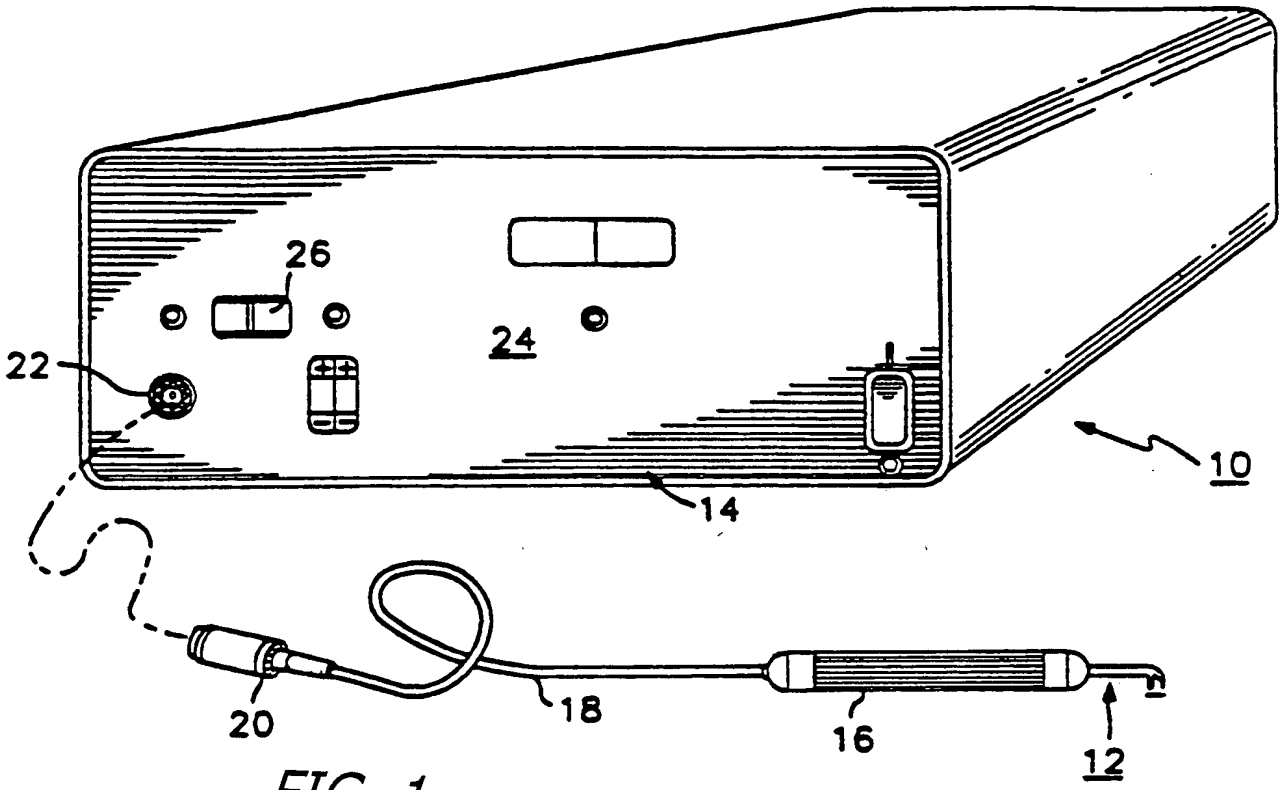


FIG. 1

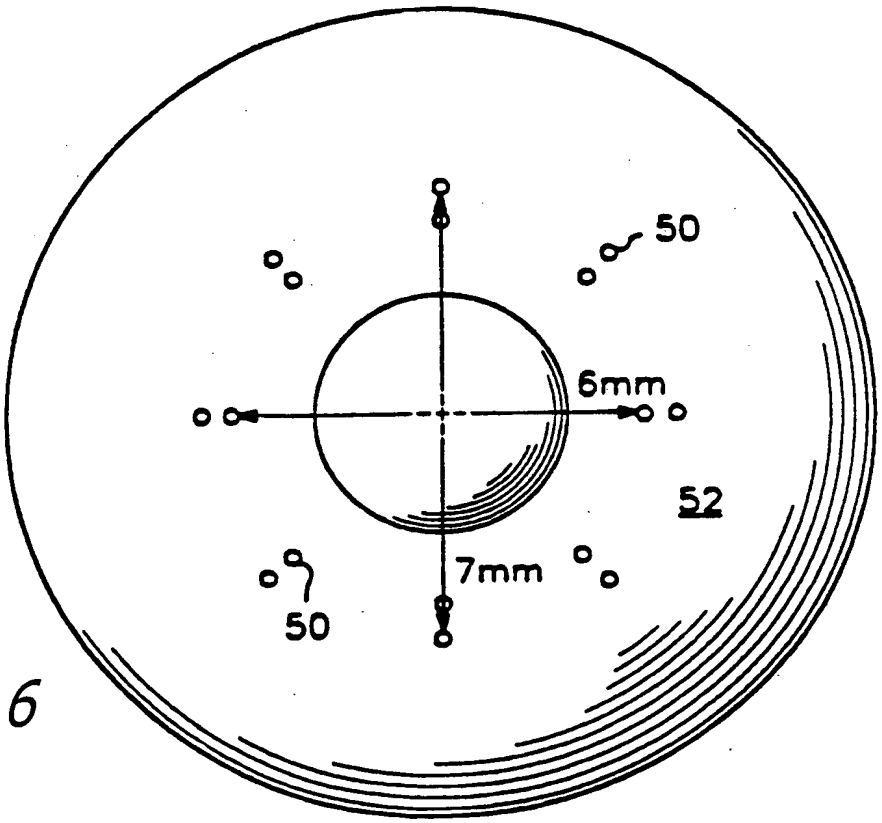


FIG. 6

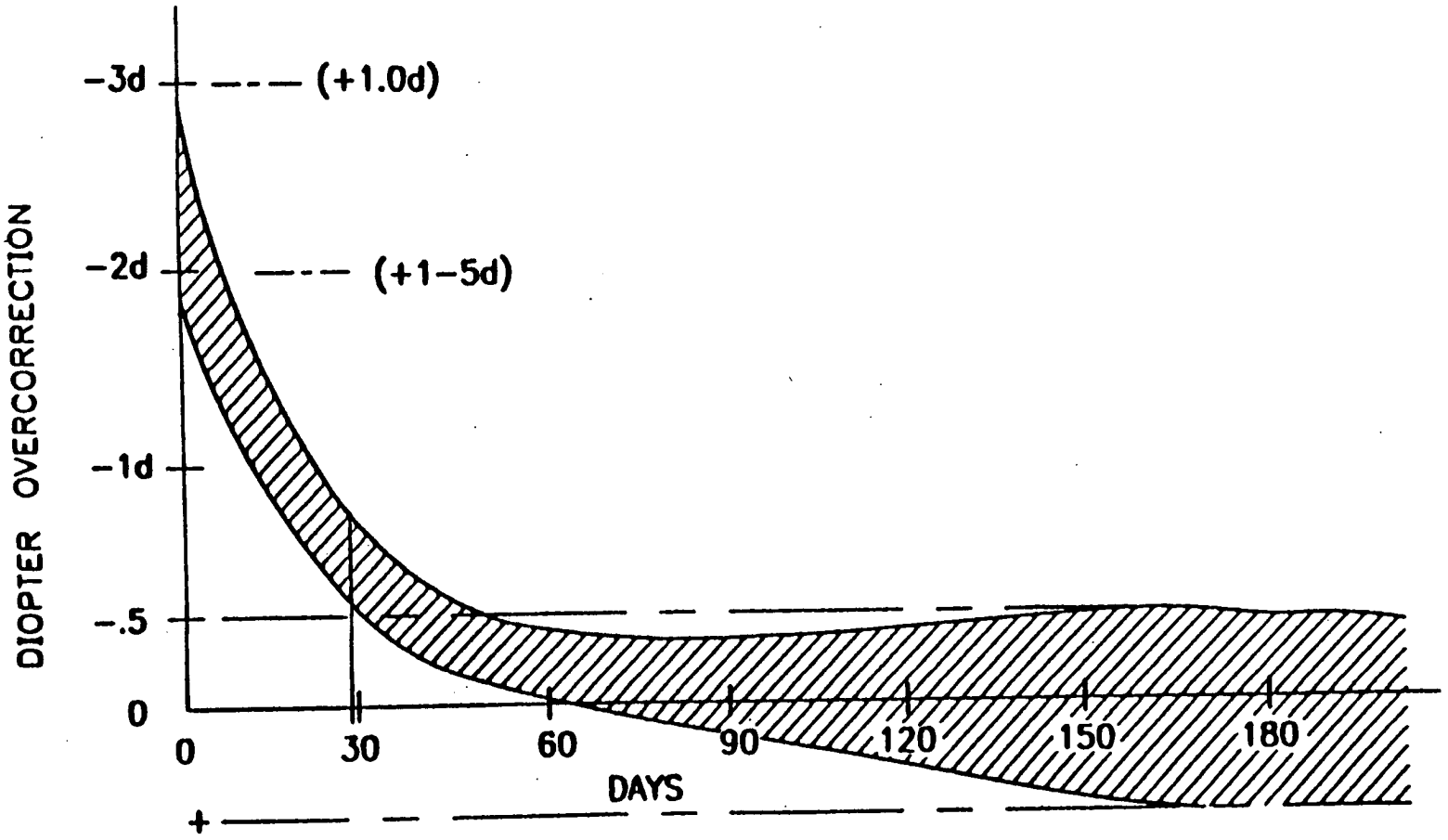

DIOPTER OVERCORRECTION
-3d
(+1.0d)
-2d
(+1-5d)
-1d
-.5
0
+
0
30
60
90
120
150
180
DAYS

FIG. 1b

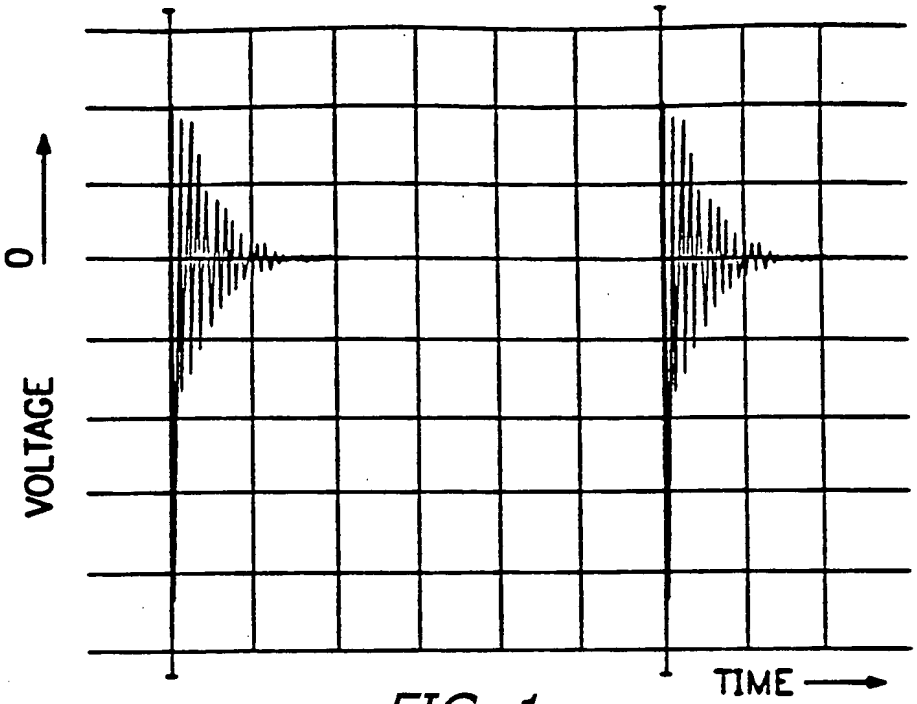

0
VOLTAGE
TIME

FIG. 1a

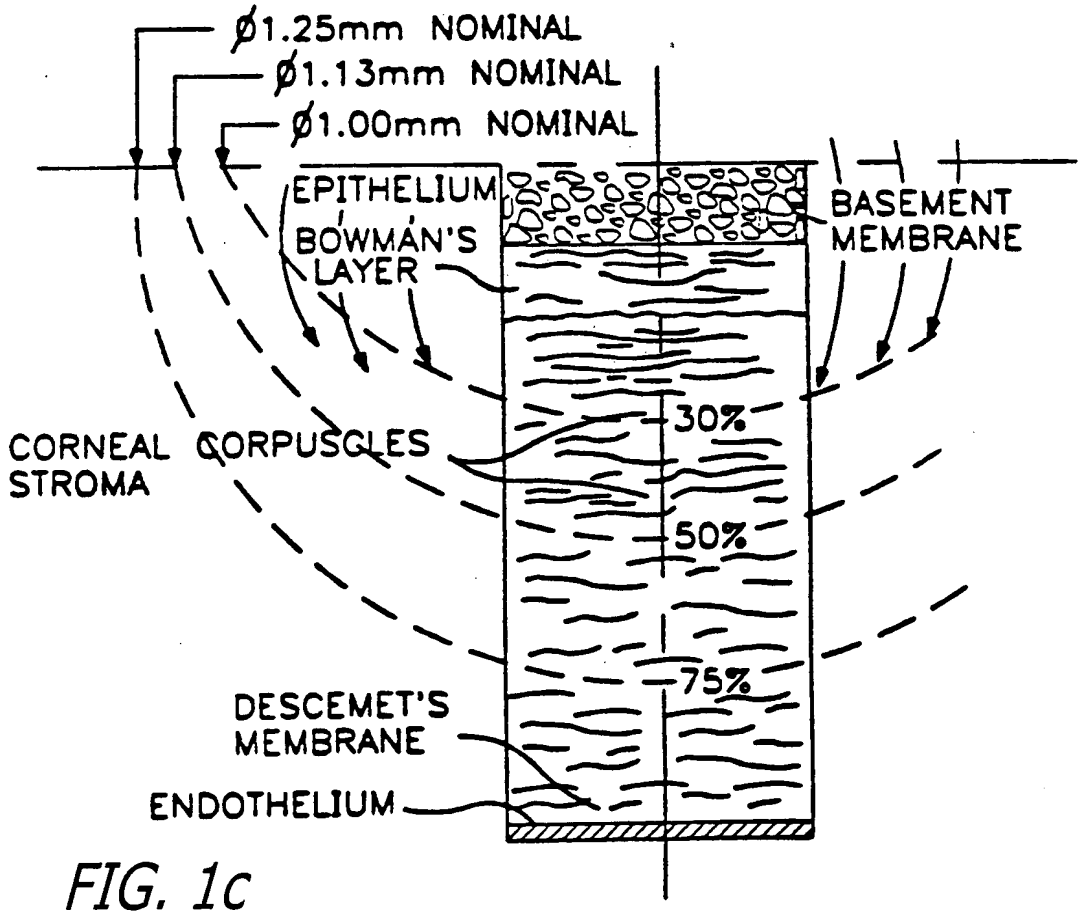

Ø1.25mm NOMINAL
Ø1.13mm NOMINAL
Ø1.00mm NOMINAL
EPITHELIUM
BOWMAN'S LAYER
BASEMENT MEMBRANE
CORNEAL STROMA
CORPUSCLES
30%
50%
75%
DESCEMET'S MEMBRANE
ENDOTHELIUM

FIG. 1c

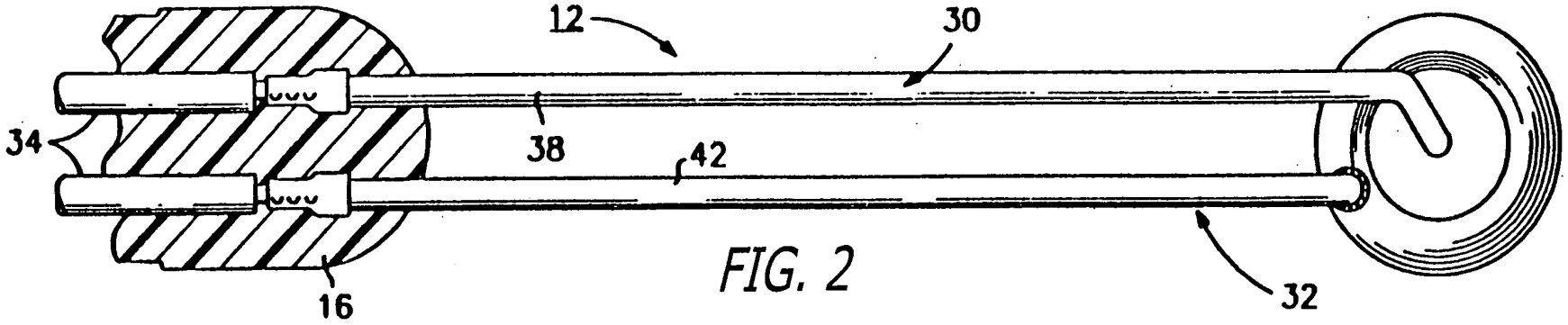


FIG. 2

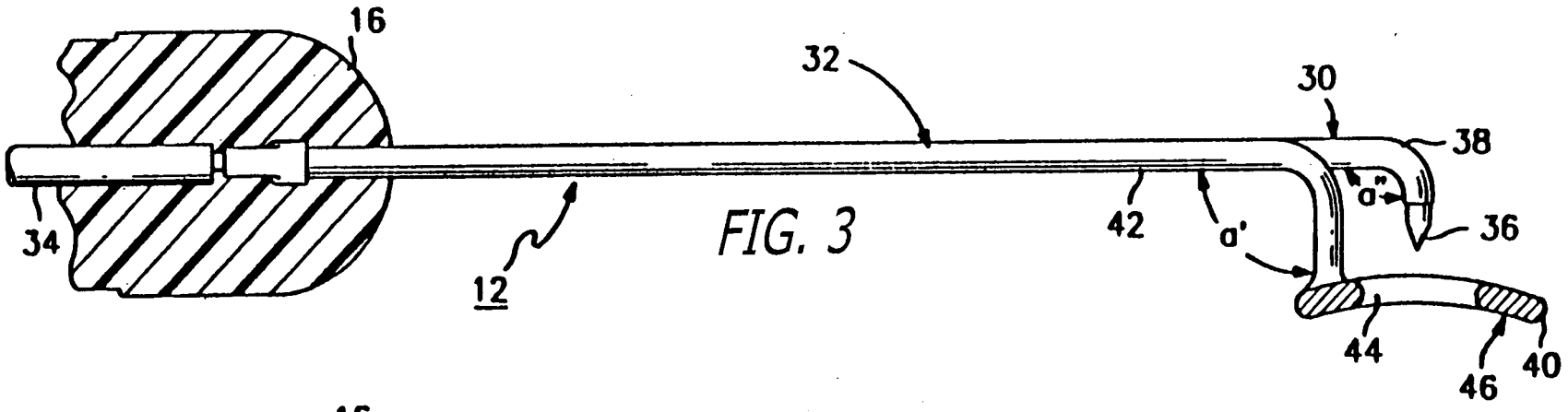


FIG. 3

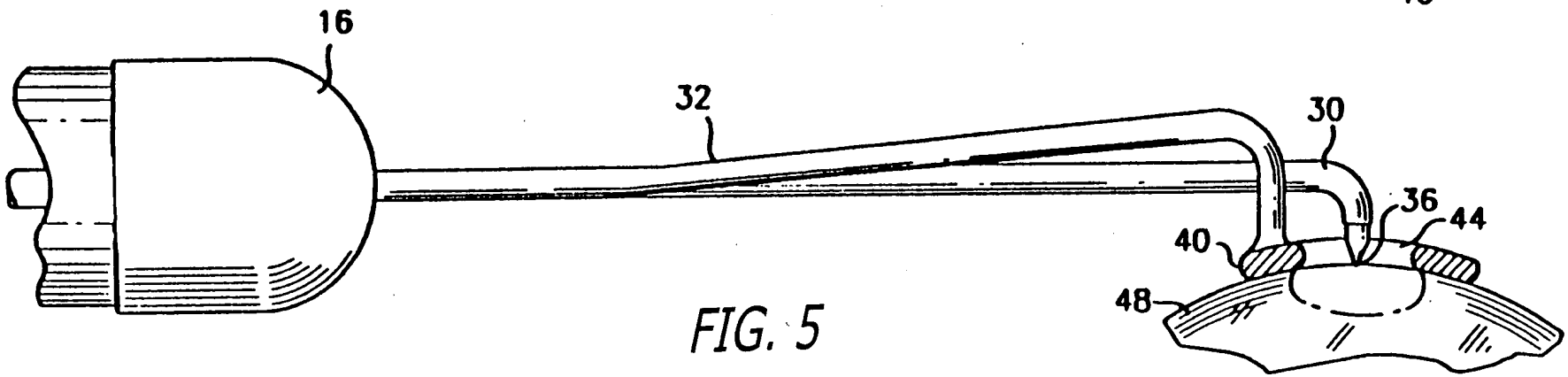


FIG. 5

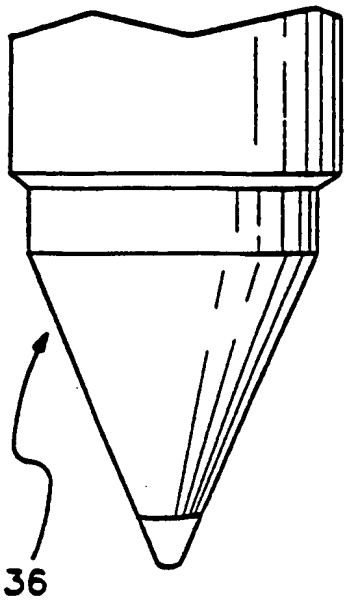


FIG. 4

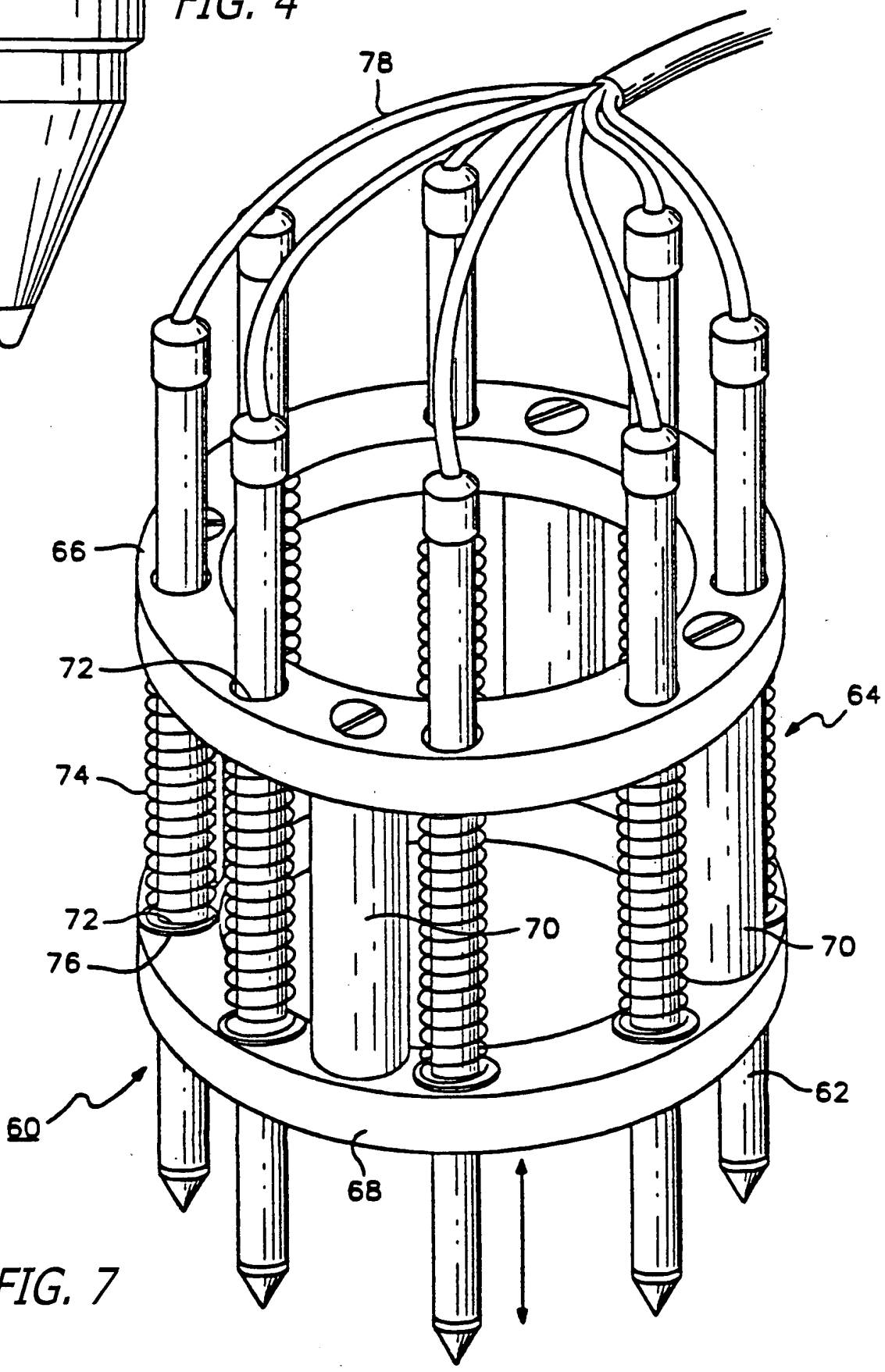


FIG. 7

FIG. 8a

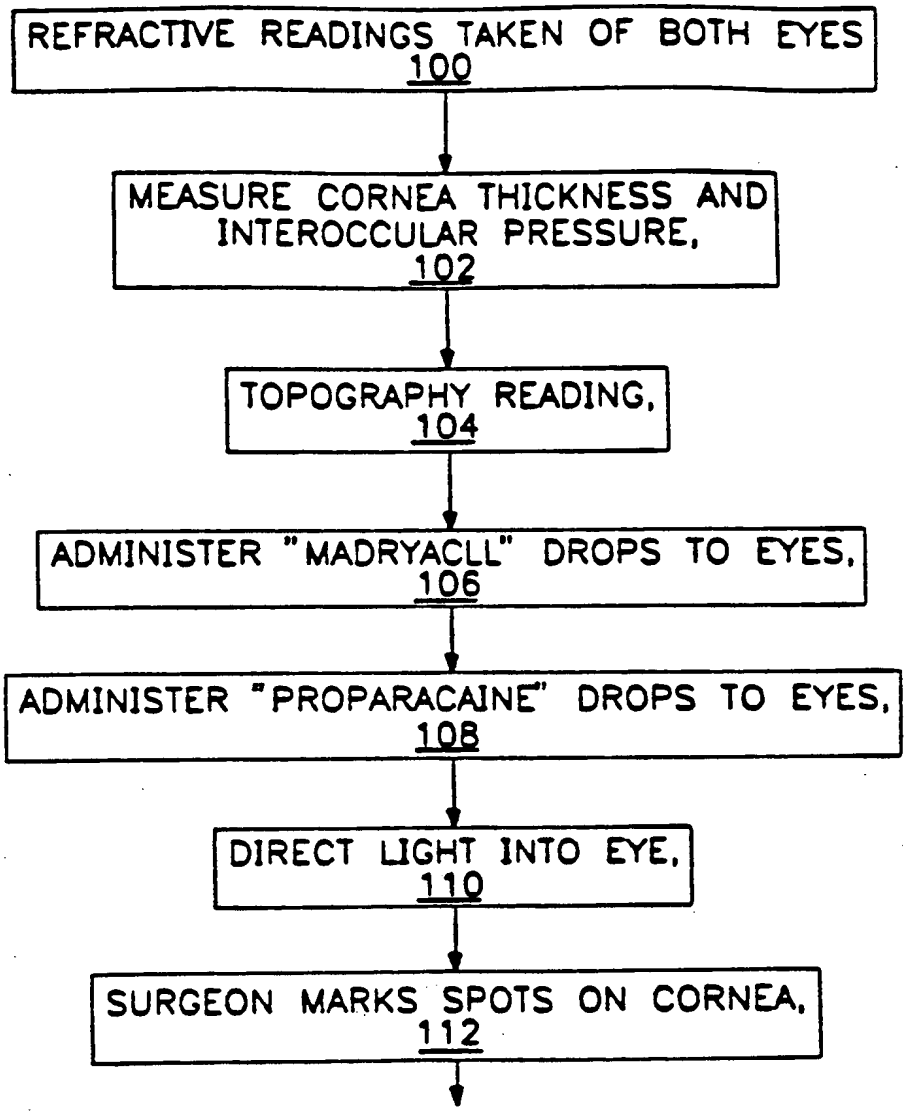
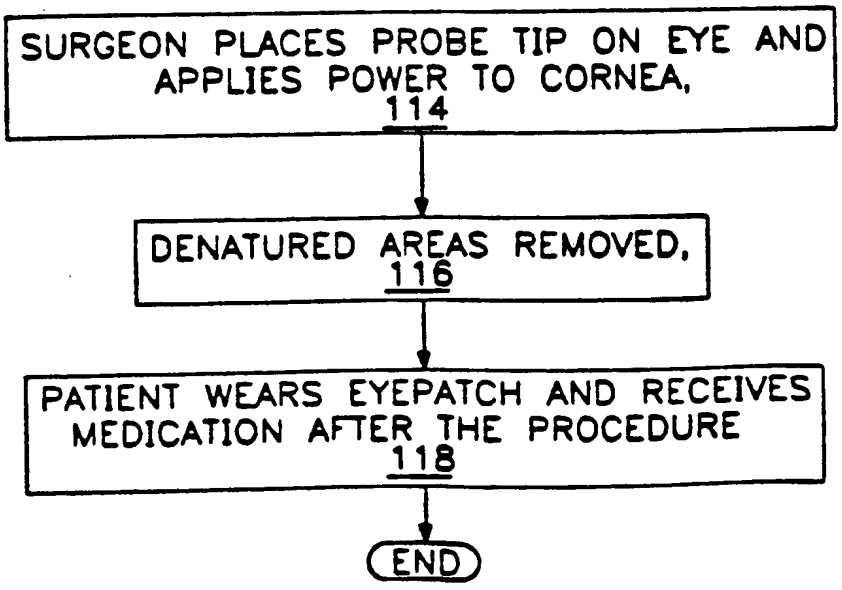

REFRACTIVE READINGS TAKEN OF BOTH EYES
100
MEASURE CORNEA THICKNESS AND INTEROCCULAR PRESSURE,
102
TOPOGRAPHY READING,
104
ADMINISTER "MADRYACLL" DROPS TO EYES,
106
ADMINISTER "PROPARACAINE" DROPS TO EYES,
108
DIRECT LIGHT INTO EYE,
110
SURGEON MARKS SPOTS ON CORNEA,
112

FIG. 8b


SURGEON PLACES PROBE TIP ON EYE AND APPLIES POWER TO CORNEA,
114
DENATURED AREAS REMOVED,
116
PATIENT WEARS EYEPATCH AND RECEIVES MEDICATION AFTER THE PROCEDURE
118
END

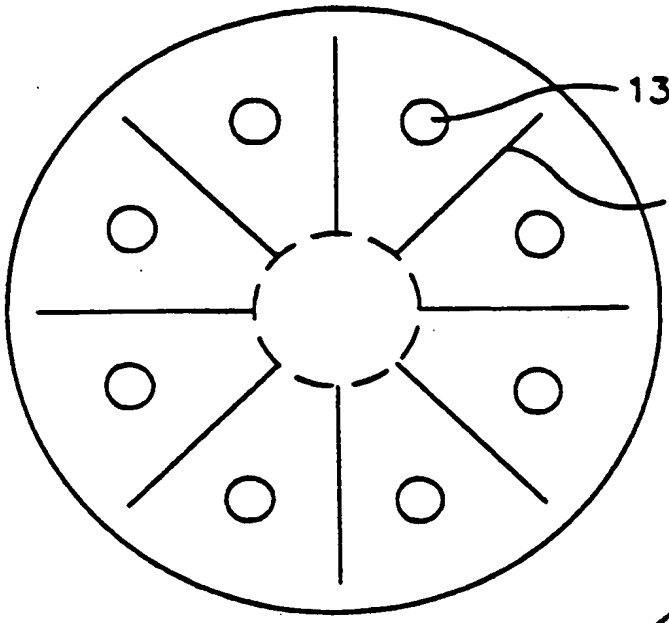


FIG. 9

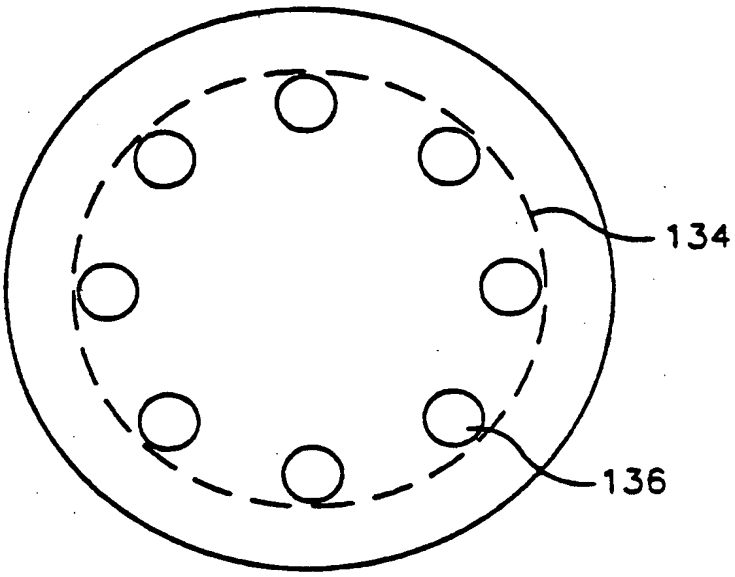


FIG. 10

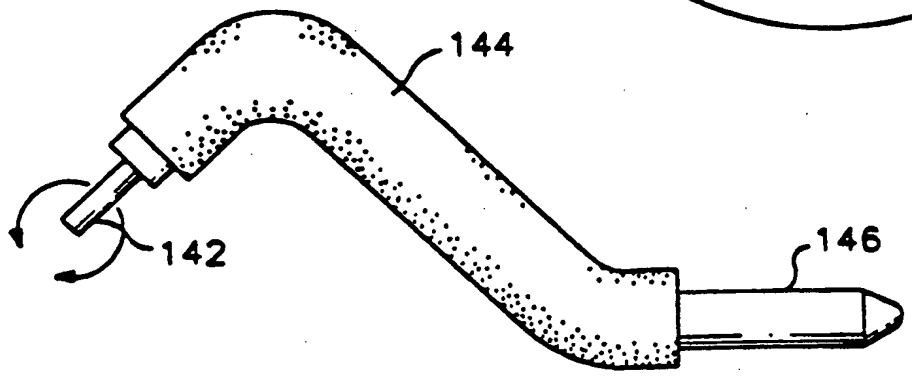


FIG. 11

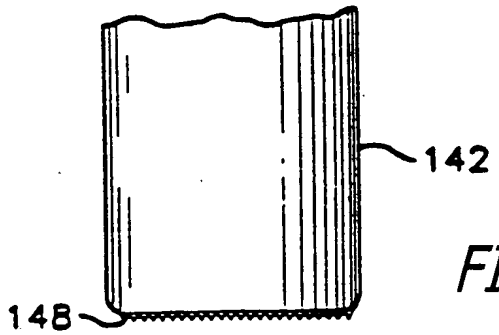


FIG. 11a

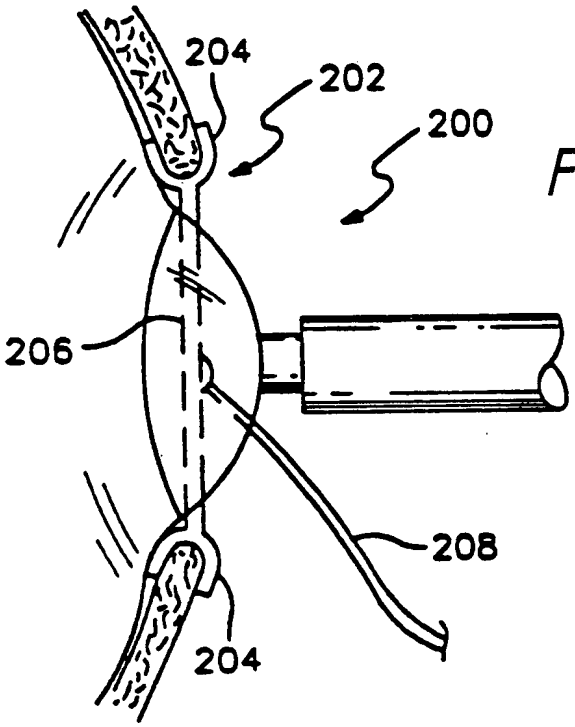


FIG. 12

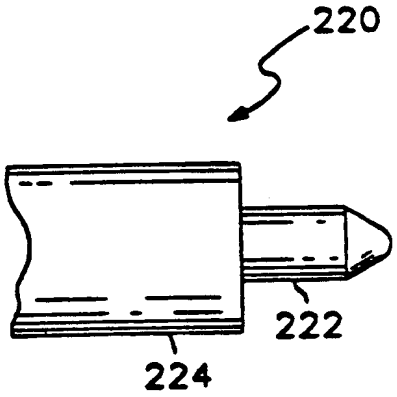


FIG. 13

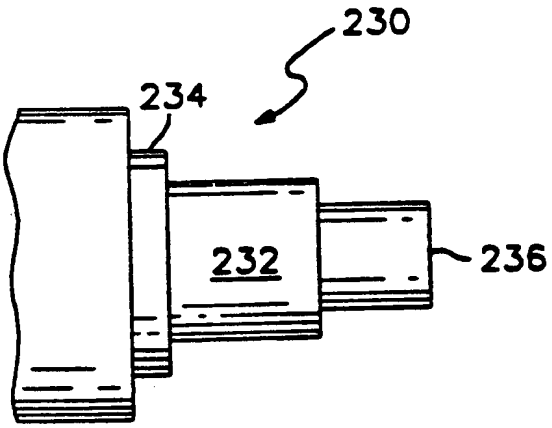


FIG. 14

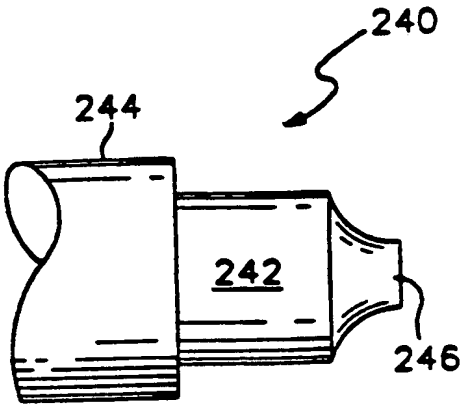


FIG. 15

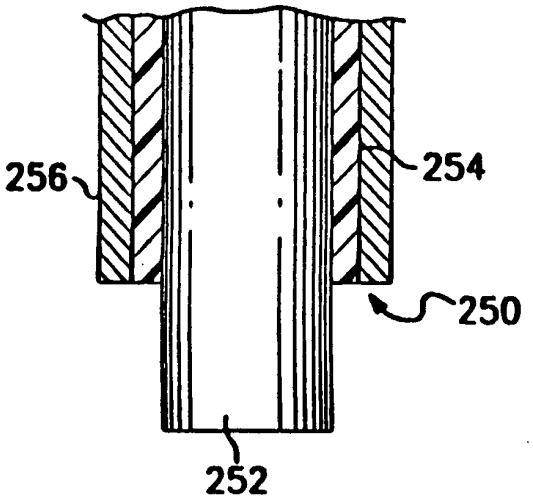


FIG. 16

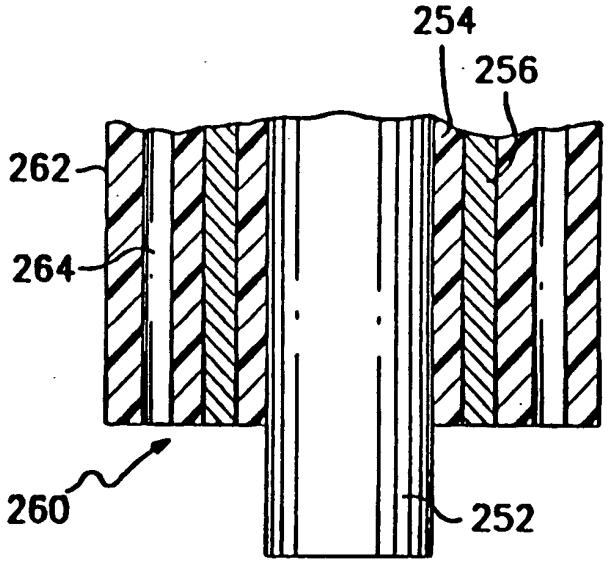


FIG. 17

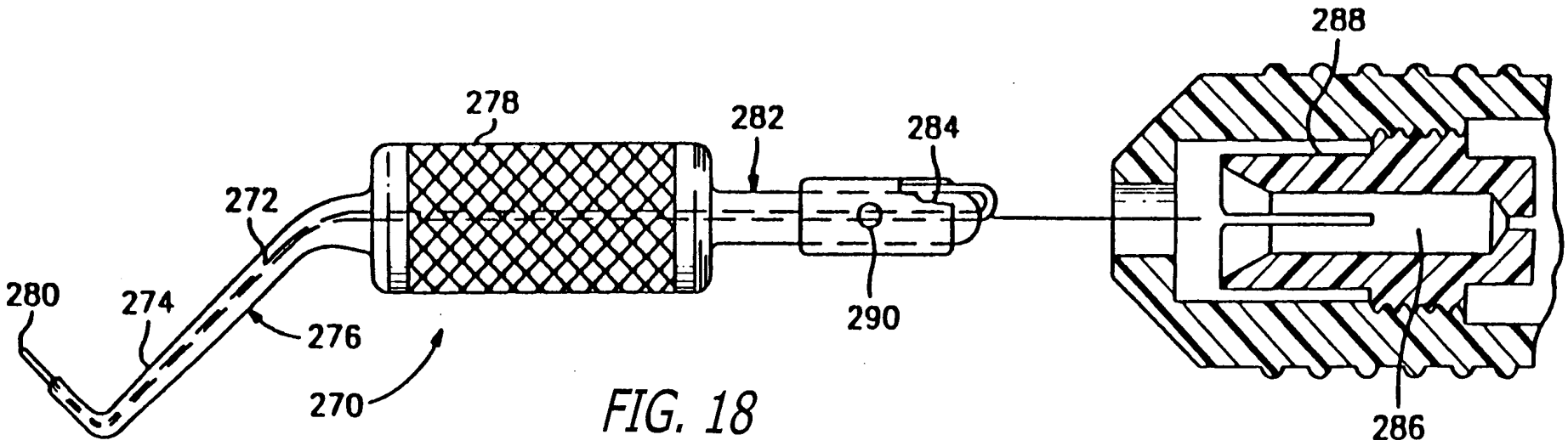
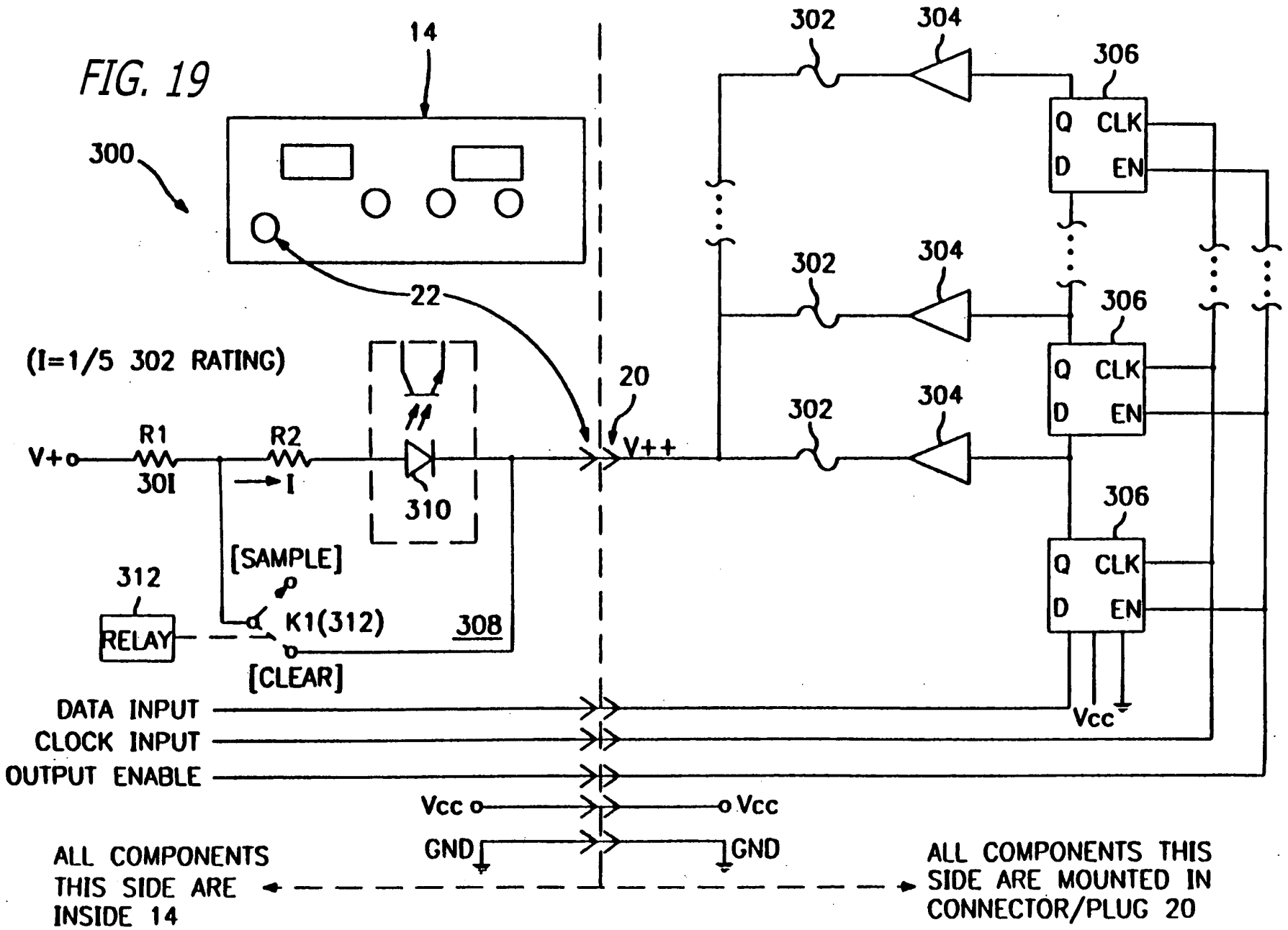


FIG. 18

FIG. 19


14
300
22
(I=1/5 302 RATING)
20
V++
V+
R1
301
R2
I
310
[SAMPLE]
312
RELAY
K1(312)
308
[CLEAR]
302
304
306
Q CLK
D EN
DATA INPUT
CLOCK INPUT
OUTPUT ENABLE
Vcc
Vcc
GND
GND
ALL COMPONENTS THIS SIDE ARE INSIDE 14
ALL COMPONENTS THIS SIDE ARE MOUNTED IN CONNECTOR/PLUG 20

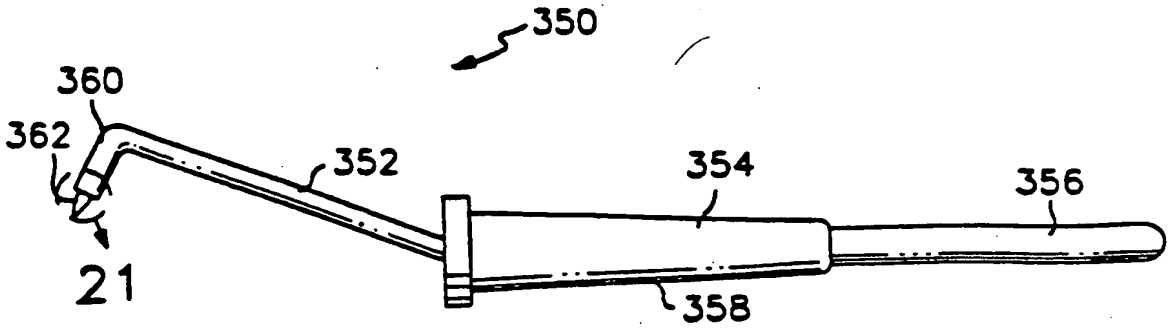


FIG. 20

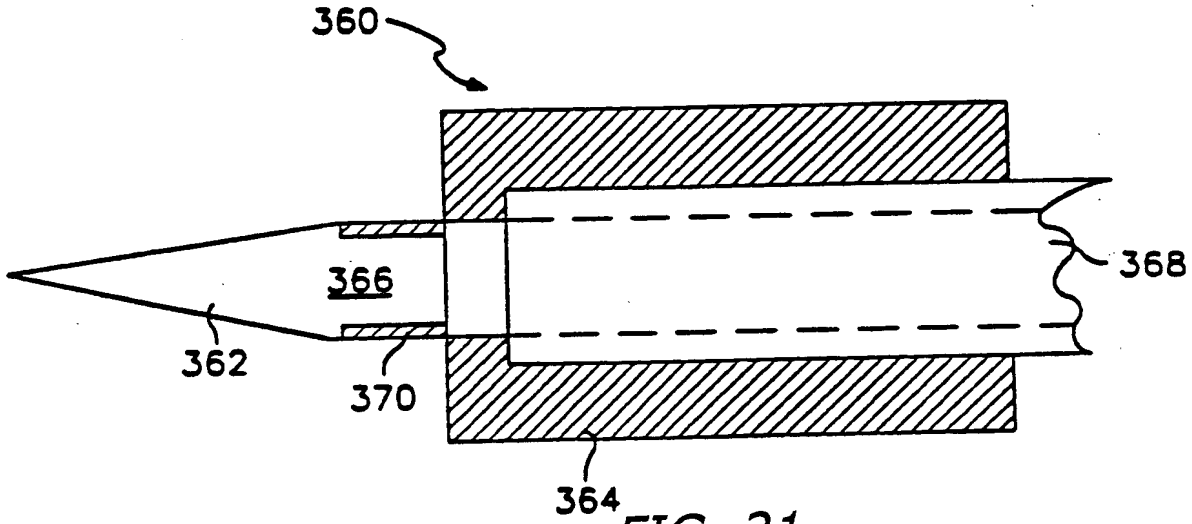


FIG. 21

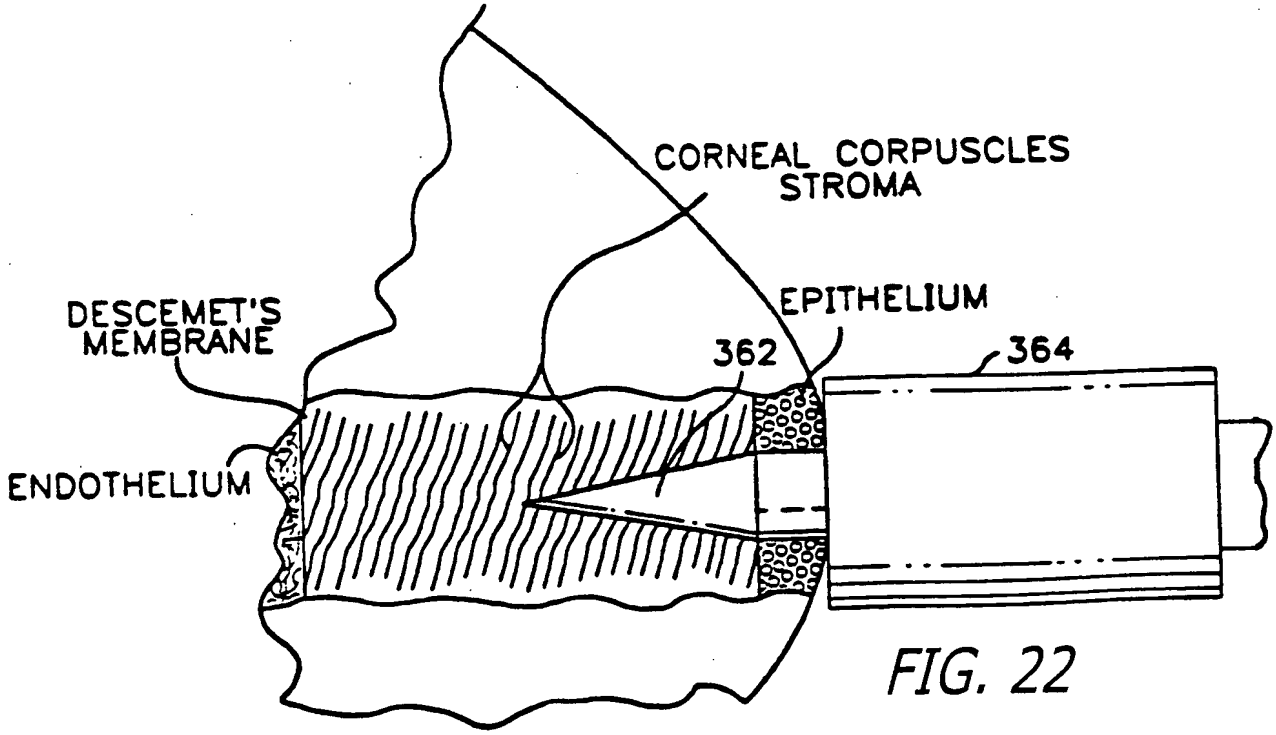


FIG. 22

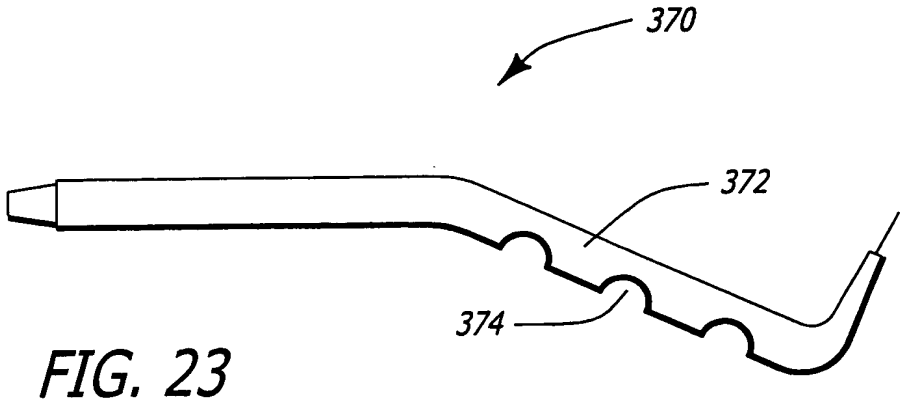


FIG. 23

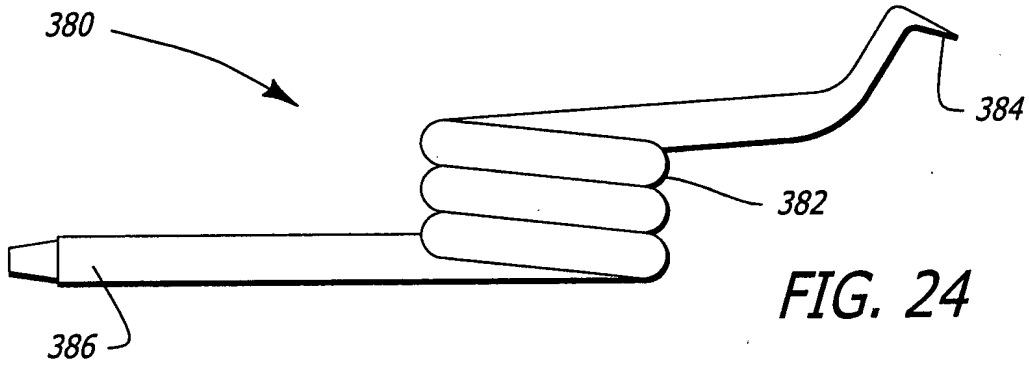


FIG. 24

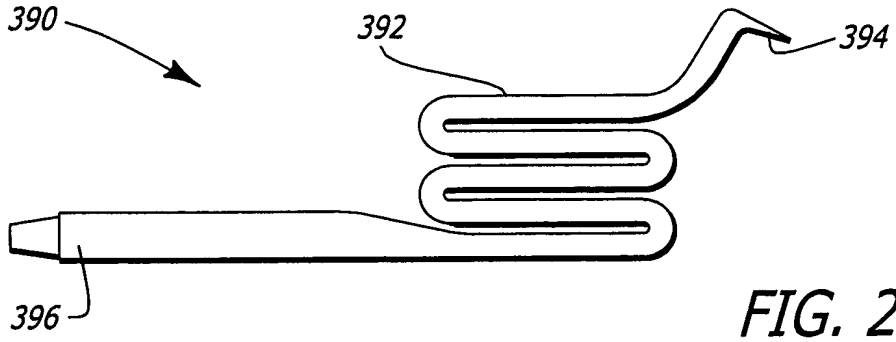


FIG. 25

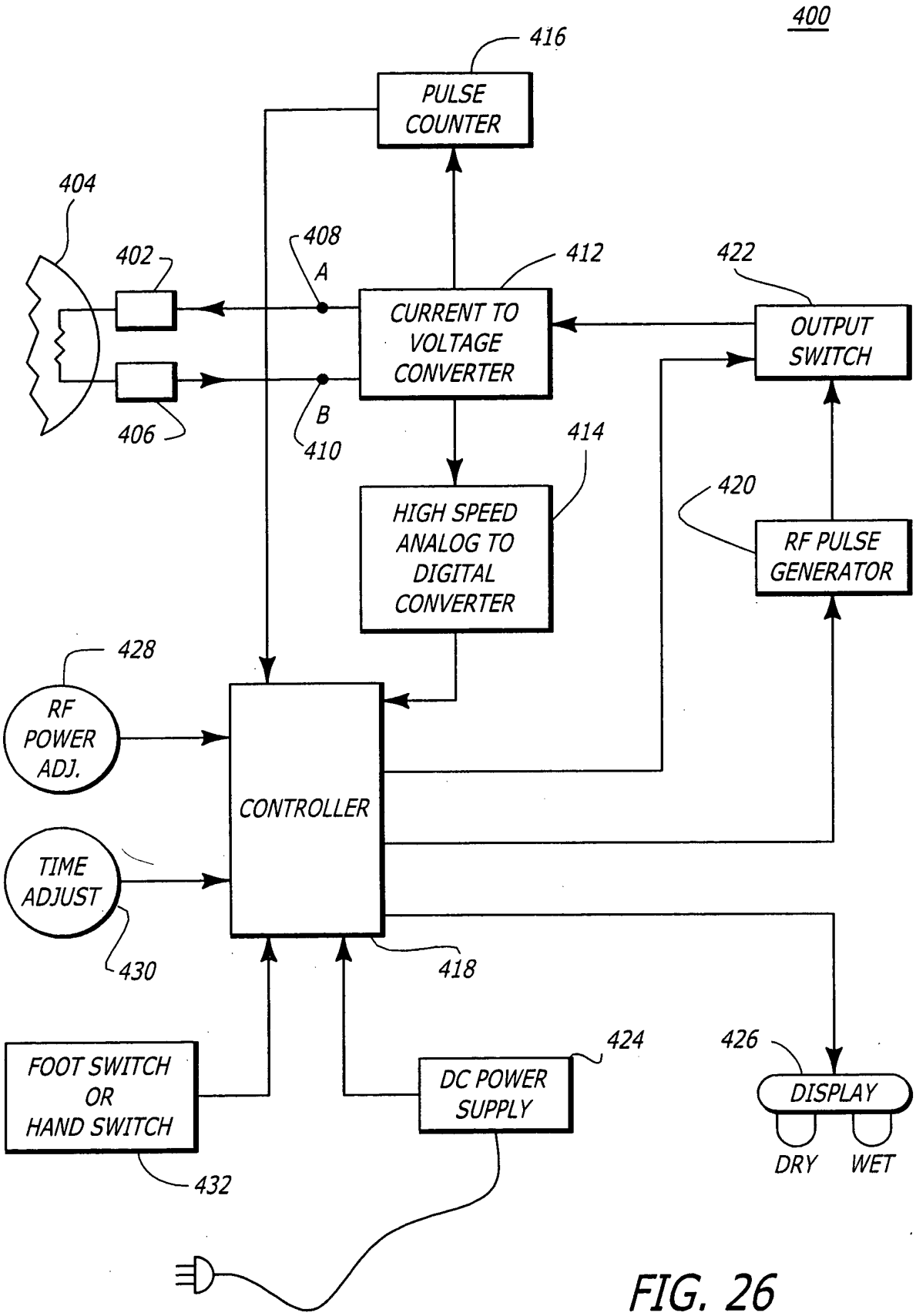

400
416
PULSE COUNTER
404
402
408
A
412
422
CURRENT TO VOLTAGE CONVERTER
OUTPUT SWITCH
406
B
410
414
HIGH SPEED ANALOG TO DIGITAL CONVERTER
420
RF PULSE GENERATOR
428
RF POWER ADJ.
CONTROLLER
TIME ADJUST
430
418
FOOT SWITCH OR HAND SWITCH
424
DC POWER SUPPLY
426
DISPLAY
DRY
WET
432

FIG. 26

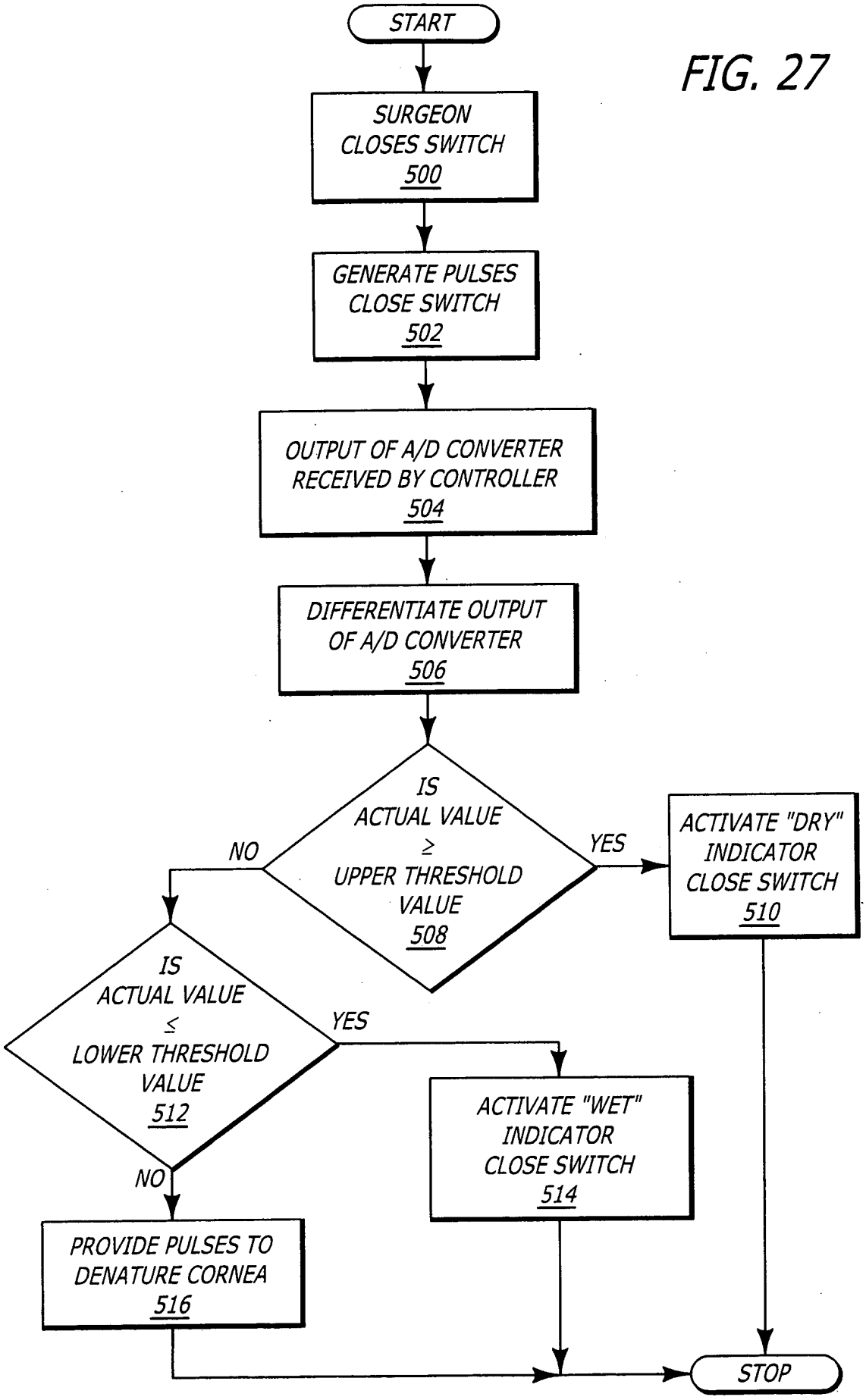

START
SURGEON CLOSES SWITCH 500
GENERATE PULSES CLOSE SWITCH 502
OUTPUT OF A/D CONVERTER RECEIVED BY CONTROLLER 504
DIFFERENTIATE OUTPUT OF A/D CONVERTER 506
IS ACTUAL VALUE ≥ UPPER THRESHOLD VALUE 508
NO
YES
ACTIVATE "DRY" INDICATOR CLOSE SWITCH 510
IS ACTUAL VALUE ≤ LOWER THRESHOLD VALUE 512
YES
NO
ACTIVATE "WET" INDICATOR CLOSE SWITCH 514
PROVIDE PULSES TO DENATURE CORNEA 516
STOP

FIG. 27

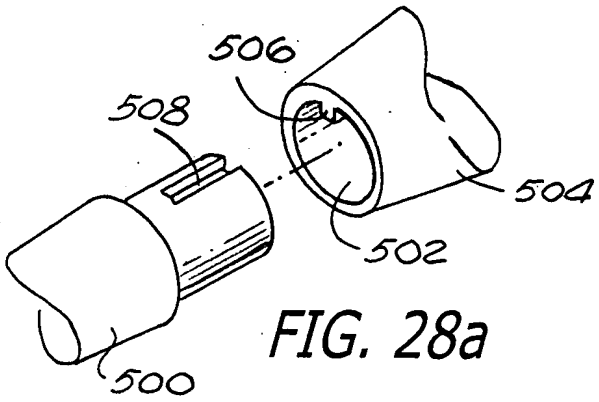


FIG. 28a

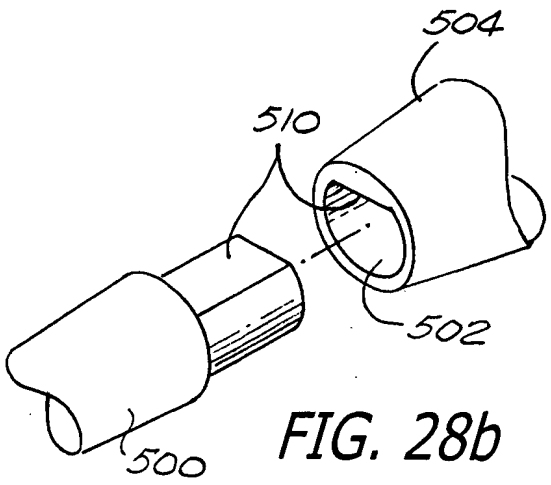


FIG. 28b

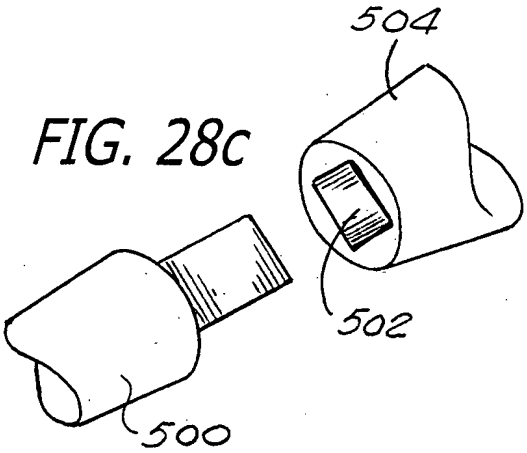


FIG. 28c

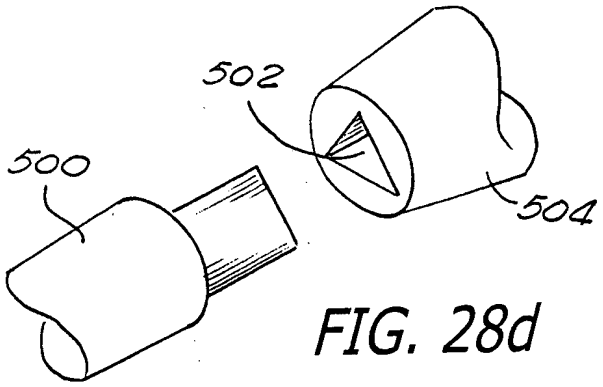


FIG. 28d

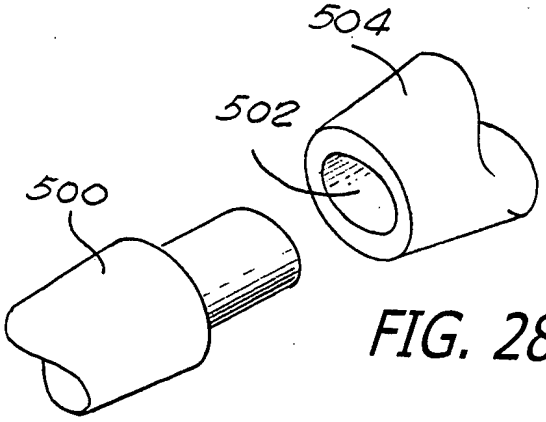
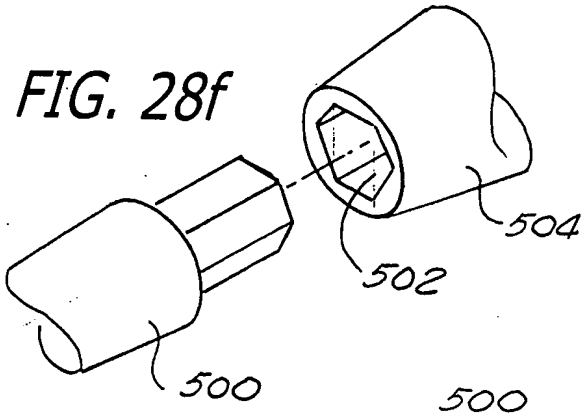


FIG. 28e

FIG. 28f



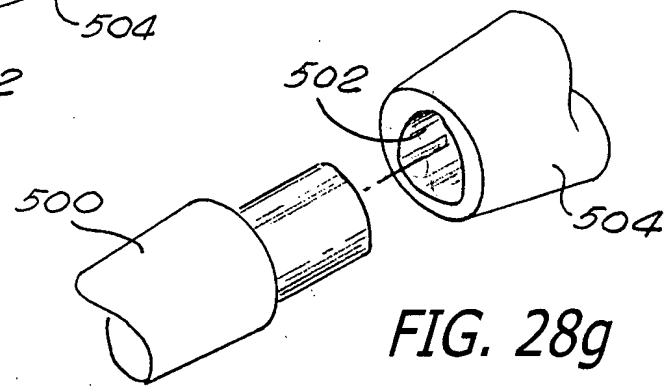
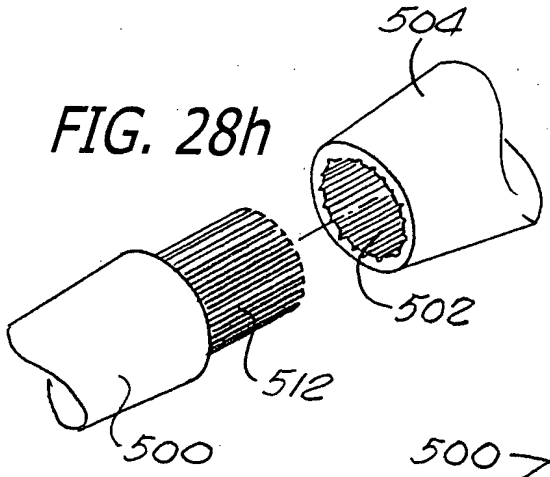


FIG. 28g

FIG. 28h



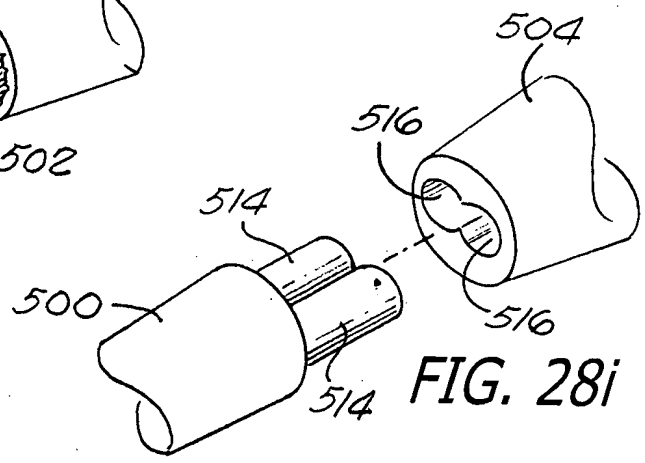


FIG. 28i

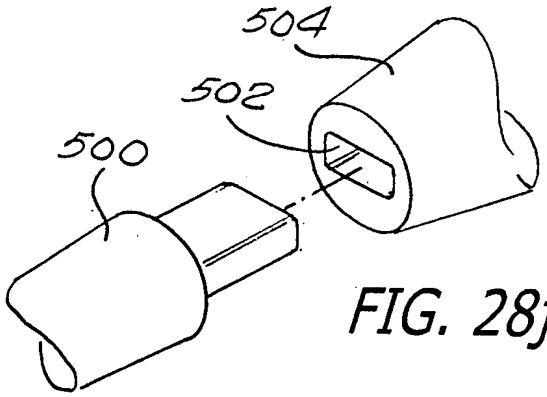
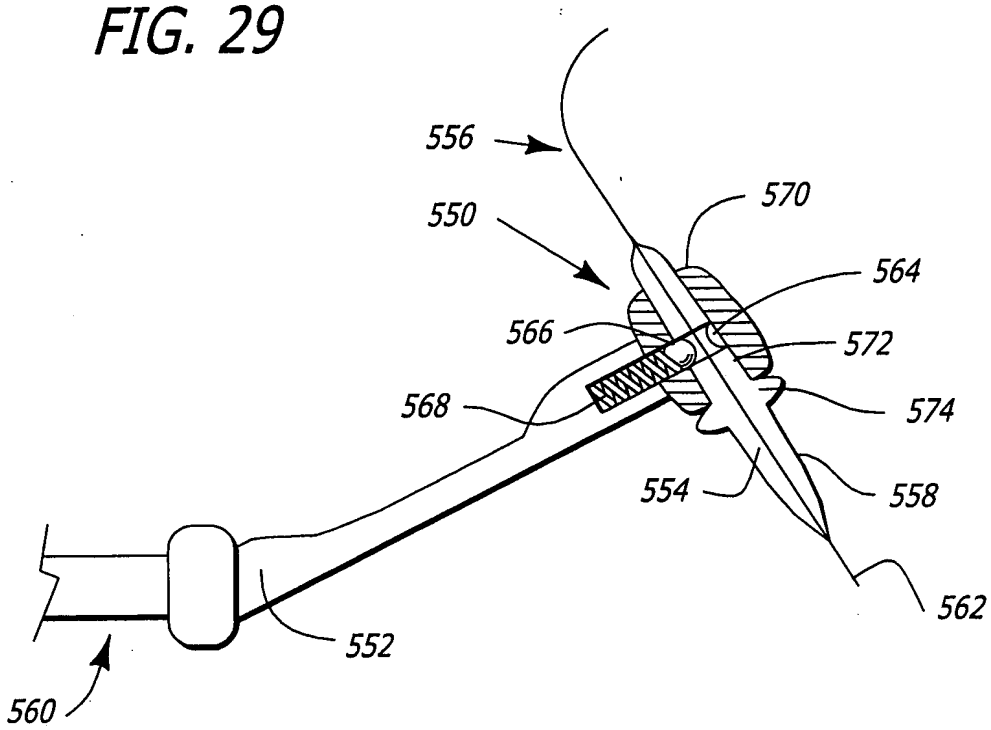


FIG. 28j

FIG. 29


556
550
570
564
566
572
568
574
554
558
562
552
560

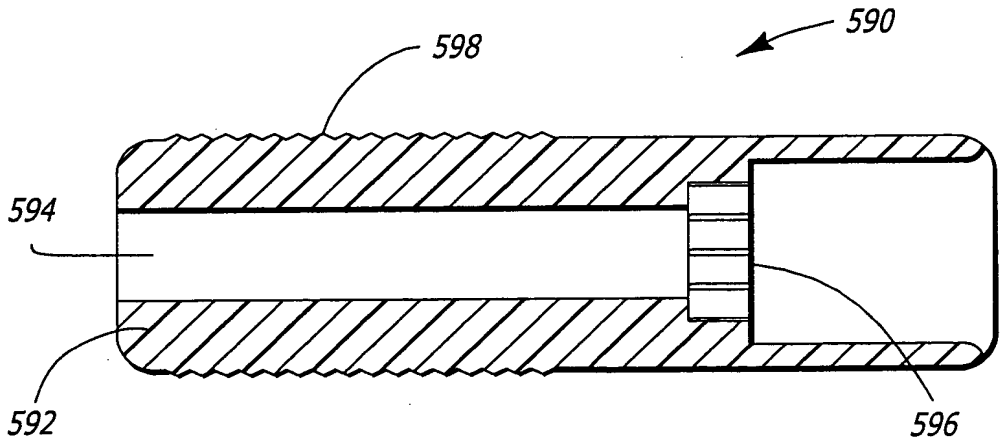

590
598
594
592
596

FIG. 30

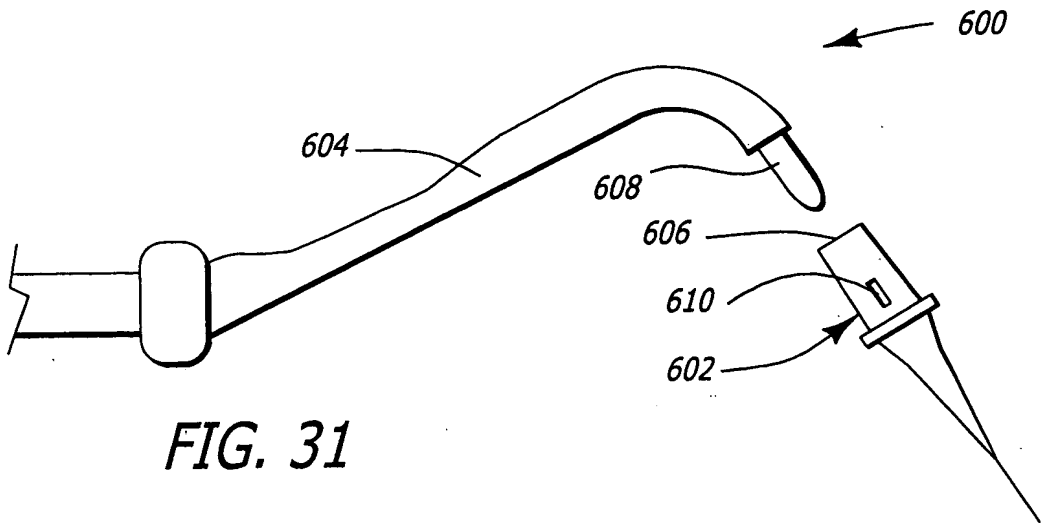


FIG. 31

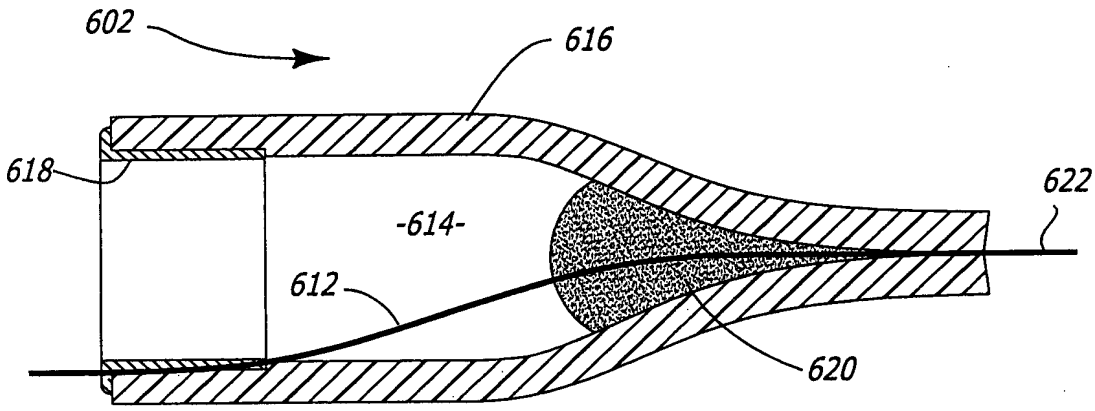


FIG. 32

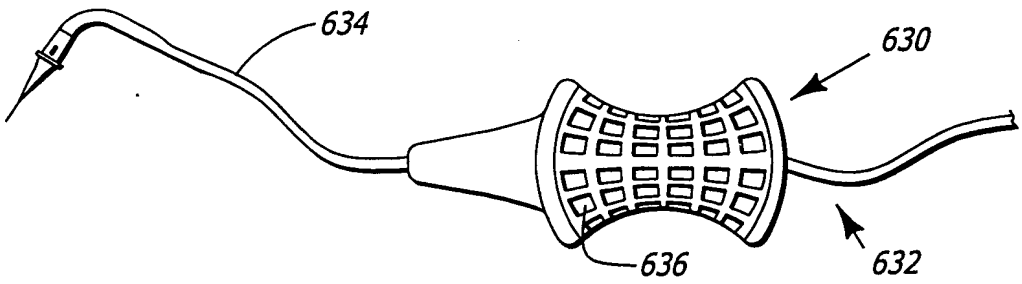


FIG. 34

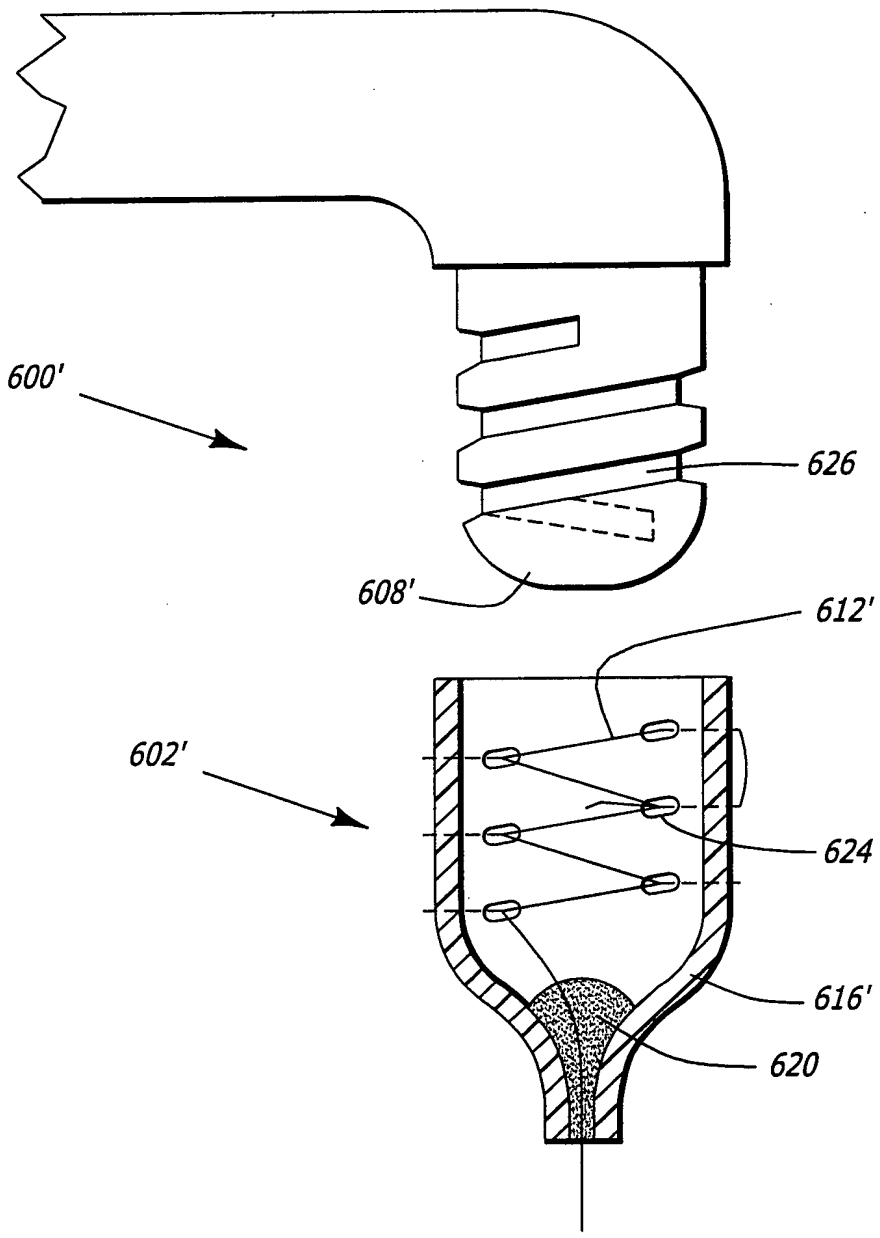


FIG. 33